



Performance Data Sheet

AWF5519EVA

General Information

Model	AWF5519EVA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	3590	2830					
	Watts	635	593					
	Amps	2.89	2.77					
	Lb/h	46.2	38.1					
-10	Btu/h	4710	3910	3090				
	Watts	696	671	636				
	Amps	3.18	3.12	2.99				
	Lb/h	60.3	52.2	43.2				
-5	Btu/h	5920	5070	4210	3320			
	Watts	749	741	723	693			
	Amps	3.43	3.45	3.38	3.24			
	Lb/h	75.4	67.2	58.1	48.2			
0	Btu/h	7240	6330	5400	4460	3510		
	Watts	795	803	801	789	763		
	Amps	3.65	3.73	3.73	3.66	3.53		
	Lb/h	91.5	83.2	74.0	63.9	52.8		
5	Btu/h	8670	7690	6690	5690	4670		
	Watts	832	857	872	876	867		
	Amps	3.83	3.98	4.05	4.05	3.99		
	Lb/h	109	100	91.0	80.7	69.4		
10	Btu/h	10200	9160	8090	7010	5910	4810	3710
	Watts	862	903	934	955	962	955	932
	Amps	3.97	4.19	4.33	4.40	4.41	4.37	4.28
	Lb/h	128	119	109	98.6	87.0	74.3	60.4
15	Btu/h	11900	10800	9600	8430	7250	6070	4880
	Watts	884	941	989	1030	1050	1060	1050
	Amps	4.08	4.36	4.57	4.71	4.80	4.83	4.81
	Lb/h	148	139	129	118	106	92.9	78.6
20	Btu/h	13800	12500	11200	9970	8690	7420	6140
	Watts	898	971	1040	1090	1130	1150	1160
	Amps	4.15	4.50	4.77	4.99	5.15	5.25	5.31
	Lb/h	170	160	150	138	126	113	98.1

25	Btu/h	15800	14400	13000	11600	10300	8870	7490
	Watts	905	994	1070	1140	1200	1240	1260
	Amps	4.18	4.60	4.94	5.23	5.46	5.64	5.78
	Lb/h	193	183	172	160	148	134	119
30	Btu/h	17900	16400	14900	13400	11900	10400	8950
	Watts	904	1010	1100	1190	1260	1320	1360
	Amps	4.18	4.66	5.07	5.43	5.73	5.99	6.20
	Lb/h	219	208	196	184	171	157	141
35	Btu/h	20300	18700	17000	15400	13800	12200	10500
	Watts	896	1020	1130	1230	1310	1390	1440
	Amps	4.14	4.69	5.17	5.59	5.97	6.29	6.58
	Lb/h	246	235	223	210	196	181	165
40	Btu/h	22900	21100	19300	17500	15800	14000	12200
	Watts	881	1020	1140	1260	1360	1450	1520
	Amps	4.07	4.68	5.23	5.72	6.16	6.57	6.93
	Lb/h	275	263	251	237	223	207	190
45	Btu/h	25600	23700	21800	19800	17900	16000	14100
	Watts	858	1010	1150	1280	1400	1500	1590
	Amps	3.96	4.63	5.25	5.81	6.33	6.80	7.24
	Lb/h	307	294	281	267	251	235	218
50	Btu/h	28600	26500	24400	22300	20200	18200	16100
	Watts	827	993	1150	1290	1430	1540	1650
	Amps	3.82	4.55	5.23	5.86	6.45	7.00	7.51
	Lb/h	341	327	313	298	282	265	247
55	Btu/h	31800	29600	27300	25000	22800	20500	18300
	Watts	790	970	1140	1300	1450	1580	1700
	Amps	3.64	4.44	5.18	5.88	6.54	7.16	7.74
	Lb/h	377	363	348	332	315	297	278

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.369656E+04	5.793454E+02	-5.196458E-01	1.426686E+02
C2	3.911830E+02	-1.821316E+01	-5.247284E-02	3.694867E+00
C3	-6.951260E+01	2.394809E+00	9.810916E-02	-5.970045E-01
C4	4.038554E+00	-1.287288E-01	-6.691098E-04	3.485395E-02
C5	-1.620027E+00	3.301572E-01	9.743239E-04	-4.852327E-03
C6	-1.652197E-01	2.547258E-02	-6.531225E-04	9.434215E-04
C7	1.563168E-02	6.540458E-05	1.772016E-07	1.643522E-04
C8	-2.180344E-02	-3.345436E-04	-7.844501E-07	-1.297195E-04
C9	1.924207E-03	1.012117E-05	2.200569E-06	6.855960E-06
C10	3.095569E-04	-2.721426E-04	9.724544E-07	-1.840503E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

AWF5519EVA

General Information

Model	AWF5519EVA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	4120	3740					
	Watts	883	847					
	Amps	3.97	3.89					
	Lb/h	52.8	49.9					
-10	Btu/h	5190	4610	4100				
	Watts	947	922	898				
	Amps	4.20	4.15	4.08				
	Lb/h	66.4	61.5	56.9				
-5	Btu/h	6480	5720	5020	4350			
	Watts	1010	993	979	964			
	Amps	4.40	4.39	4.35	4.30			
	Lb/h	82.5	75.8	69.4	62.8			
0	Btu/h	7980	7050	6170	5320	4510		
	Watts	1060	1060	1060	1050	1040		
	Amps	4.57	4.60	4.60	4.58	4.54		
	Lb/h	101	92.8	84.7	76.3	67.4		
5	Btu/h	9700	8600	7540	6510	5520		
	Watts	1100	1120	1130	1130	1140		
	Amps	4.72	4.79	4.83	4.84	4.84		
	Lb/h	122	112	103	92.7	82.1		
10	Btu/h	11600	10300	9120	7930	6750	5600	4460
	Watts	1140	1170	1190	1210	1230	1230	1230
	Amps	4.85	4.95	5.03	5.09	5.13	5.14	5.13
	Lb/h	145	134	123	112	99.9	86.8	72.4
15	Btu/h	13700	12300	10900	9550	8210	6880	5560
	Watts	1170	1220	1250	1290	1310	1330	1340
	Amps	4.94	5.09	5.21	5.32	5.39	5.45	5.48
	Lb/h	170	158	146	134	120	106	90.1
20	Btu/h	16000	14400	12900	11400	9880	8390	6890
	Watts	1200	1260	1310	1350	1390	1420	1440
	Amps	5.01	5.21	5.38	5.52	5.64	5.74	5.82
	Lb/h	197	185	172	158	144	128	111

25	Btu/h	18500	16800	15100	13400	11800	10100	8440
	Watts	1210	1290	1360	1420	1470	1510	1540
	Amps	5.06	5.30	5.52	5.71	5.88	6.02	6.14
	Lb/h	226	213	199	185	170	153	135
30	Btu/h	21100	19200	17400	15600	13800	12000	10200
	Watts	1220	1310	1400	1470	1540	1600	1640
	Amps	5.07	5.37	5.63	5.88	6.10	6.29	6.46
	Lb/h	257	243	229	214	198	180	161
35	Btu/h	23900	21900	20000	18000	16100	14100	12200
	Watts	1220	1330	1430	1520	1610	1680	1730
	Amps	5.06	5.41	5.73	6.03	6.30	6.54	6.76
	Lb/h	289	275	260	245	229	211	191
40	Btu/h	26800	24700	22700	20600	18500	16400	14300
	Watts	1210	1330	1460	1570	1670	1750	1820
	Amps	5.03	5.43	5.81	6.16	6.48	6.78	7.05
	Lb/h	323	309	294	278	261	243	223
45	Btu/h	29900	27700	25500	23300	21100	18900	16700
	Watts	1180	1330	1470	1600	1720	1820	1910
	Amps	4.96	5.42	5.86	6.27	6.65	7.00	7.33
	Lb/h	358	344	329	313	296	278	257
50	Btu/h	33100	30800	28500	26200	23900	21500	19200
	Watts	1150	1320	1480	1630	1760	1880	1980
	Amps	4.87	5.39	5.89	6.36	6.80	7.21	7.59
	Lb/h	394	380	366	350	333	315	294
55	Btu/h	36400	34000	31600	29200	26800	24400	21900
	Watts	1110	1300	1480	1650	1800	1940	2060
	Amps	4.75	5.34	5.90	6.43	6.93	7.40	7.84
	Lb/h	431	418	404	389	372	353	333

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.768605E+04	1.214816E+03	3.656422E+00	2.104520E+02
C2	5.583418E+02	-1.767602E+01	-3.219472E-02	5.760534E+00
C3	-1.523958E+02	-5.561263E+00	1.934086E-02	-2.232336E+00
C4	2.948458E+00	-2.583796E-01	-9.135475E-04	1.563447E-02
C5	-2.524417E+00	4.167674E-01	8.557598E-04	-1.572073E-02
C6	4.577229E-01	6.623117E-02	-9.521008E-05	1.512865E-02
C7	-1.096560E-02	-5.443901E-04	-1.382150E-07	-1.672015E-04
C8	1.485122E-02	1.596001E-03	4.895057E-06	3.843926E-04
C9	-5.343451E-03	-9.179322E-04	-6.070007E-07	-8.524687E-05
C10	-8.579565E-04	-2.653895E-04	-3.804589E-08	-5.383926E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature